

Table 3-1
Cement Plant Description and Operating Data

Cement Plant	Process* (wet or dry)	Clinker Production* (tons/year)	Emissions Control Equipment	Fuels*
Ash Grove Durkee, OR	Dry	815,000	Electrostatic Precipitator (ESP)	Gas, coal, waste-derived fuels (WDF)
Box Crow (Holnam Texas Limited Partnership)** Midlothian, TX	Dry	1,155,000	Baghouse	Gas, coal, TDF, wood chips, oil filter fluff
California-Portland Cement Colton, CA	Dry	680,000	Baghouse	Coal, gas, coke, WDF
Holnam (Lafarge)** Seattle, WA	Wet	345,000	ESP	Coal, coke, WDF
Holnam Clarksville, MO	Wet	1,179,000	ESP	Coke, WDF
Holnam Dundee, MI	Wet	788,000	Baghouse	Coal, coke
Holnam Trident, MT	Wet	324,000	ESP	Coal, coke, gas
Lehigh Portland Cement Union Bridge, MD	Dry	900,000	ESP	Coal, WDF
Mitsubishi Cement Lucerne, CA	Dry	1,580,000	N/A***	Coal, coke, gas, WDF
RMC Lonestar Davenport, CA	Dry	755,000	ESP	Coal
Southwestern Portland Cement (Southdown)** Victorville, CA	Dry	1,820,000	Baghouse	Coal, gas

none of
the wet
process
kilns
analyzed
uses TDF

- * As reported by the Portland Cement Association (PCA), "U.S. and Canadian Portland Cement Industry: Plant Information Summary," December 31, 1999.
** Former owner at time of emissions tests and (new owner).
*** Not available.

Given the focus of the risk assessment on the changes in emissions due to using TDF, Holnam finds that a comparison of emissions changes collected before and after using TDF is the most appropriate emissions data source for this risk

assessment. Source test results have been obtained from the cement plants listed in Table 3-1 and were considered in developing the COPC emissions inventory for the HRA. A description of the source (emissions) tests compiled for these facilities is given below in Table 3-2.

Table 3-2
HAPs Emissions Tests

Cement Plant	Emissions Test Date	Emissions Testing Firm	Fuels During Testing*	% Tires** Combusted	Comments
Ash Grove Durkee, OR	10/89	Unknown	Natural gas, coal, tires	Unknown	Emission test report unavailable
Box Crow Midlothian, TX	10/91	Metco Environmental	Coal/coal & tire chip fuel	33%	
California- Portland Cement Colton, CA	6&7/99	Delta Air Quality Services, Inc.	Coal/coal & tires	11-12%	One tire fed per revolution
Holnam (Lafarge) Seattle, WA	10/90	AMTEST Air Quality, Inc.	Coal, coke/coal, coke, tire- derived fuel (TDF)	14%	
Holnam Clarksville, MO	12/97	DEECO, Inc.	Coal, coke, WDF/coal, coke, WDF, TDF	10-15%	WDF: Hazardous waste- derived fuel
Holnam Dundee, MI	4/97	Toltest, Inc.	Coal/coke, TDF	15% and 21%	
Lehigh Portland Cement Union Bridge, MD	10/95	Radian Corporation	Coal/coal, tires	20%	Run #1 with waste oil excluded
Mitsubishi Cement Lucerne, CA	10/93	Engineering- Science, Inc.	Coal/coal, tires	20%	
RMC Lonestar Davenport, CA	4/90 & 12/90	Engineering- Science, Inc.	Coal/coal, TDF	10-18%	
RMC Lonestar 2 Davenport, CA	9/92	Engineering- Science, Inc.	Coal/coal, TDF	18%	
Southwestern Portland Cement Victorville, CA	3/90 & 4/91	Metco Environmental	Coal/coal, TDF	Approx. 25%	